

## IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strike through~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 2 and 8 without prejudice or disclaimer and AMEND the claims in accordance with the following:

1. (Currently Amended) A heater lamp control apparatus to apply an AC voltage inputted through a power input unit to a heater lamp via a power supply unit, comprising:  
an AC voltage phase detection unit to detect a phase of the inputted AC voltage when a magnitude of the inputted AC voltage is over a predetermined level;  
a pulse signal generation unit to generate a heater lamp control pulse signal based on a result of the detection; and  
a control unit to control a drive-timing of the heater lamp based on the generated heater lamp control pulse signal, wherein  
the pulse signal generation unit generates a pulse reference signal based on a result of the detection, a phase-delayed pulse delay signal based on the pulse reference signal, and the heater lamp control pulse signal based on a result of a comparison of magnitudes of the pulse reference signal and the pulse delay signal.

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approved

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3. (Currently Amended) The heater lamp control apparatus as claimed in claim ~~2~~1, wherein the pulse signal generation unit comprises:  
a comparator to compare magnitudes of signals inputted to a positive terminal and a negative terminal thereof; and  
a capacitor connected to the negative terminal of the comparator, to delay a phase of the pulse reference signal and to convert the phase-delayed pulse reference signal into the pulse delay signal, and if the pulse reference signal is generated and outputted to the positive and negative terminals respectively, the comparator outputs the heater lamp control pulse signal to the control unit based on a result of the magnitude comparison of the pulse reference signal inputted to the positive terminal and the pulse delay signal inputted to the negative terminal.